AUTHOR INDEX TO THE SHOCK AND VIBRATION DIGEST

VOLUME 1 ISSUES 1 - 12 1969

Feature Articles

	Issue	Pages
Plunkett, R. Shock and Vibration Instrumentation	4	1-4
Traexler, J. F. Vibration Problems in Turbomachinery	5	1-3
Eshleman, R. L. Digital Simulation of Dynamic Systems	8	1-6

A

Abgarian, K.A. 547
Ablowitz, M. 152
Aboudi, J. 397
Acharaya, A.R. 541
Achenbach, J.D. 168,260
Abu-Akeel, A.K. 363
Advani, S.H. 462
Akulenko, L.D. 219,548
Ali, H.B. 41
Allwood, R.J. 328
Alma, H.F. 41
Al-Najafi, A.M.J. 503
Al-Temimi, C.A. 605
Alterman, Z.S. 397
Ames, W.F. 35
Anand, G.V. 277,576
Anderson, D.L. 543
Anderson, G.L. 193
Anderson, T.L. 379
Anderson, W.J. ... 199,310,558
Andrew, C. 484
Andrews, F.A. 444
Aoki, I. 345,560
Arcas, N. 160
Arkhangel'skii, M.E. 603
Armstrong, I.D. 278
Arthurs, T.D. 65
Ashton, J.E. 169,447
Atkinson, J.D. 28
Attia, A.Y. 213
Austin, F. 211
Awojobi, A.O. 236

B

Baganoff, D. 43
Baganoff, F. 43
Bagdasaryan, G.E. 602
Bahn, M.M. 107
Bajan, R.L. 59
Bajpai, S.D. 589
Baker, G.L. 619
Baker, J.L. 421
Baker, W.E. 399
Balke, R.W. 166
Ballard, W.C. 130
Bannister, R.L. ..515,516,607
Bapat, V.A.R. 295,464
Bargel, H.-J. 534
Barnoski, R.L. 16,292,394,463
Basore, C.E. 615
Basu, S.K. 536
Bauer, H.F. 234
Baxi, C.B. 512
Bell, A.W. 103
Benedict, R.P. 206
Benson, D. 202
Berkof, R.S. 170
Berkowitz, H.M. 34
Berktay, H.O. 605
Bernstein, B. 485
Bert, C.W. 119,125,194
421,608
Bertodo, R. 494
BeVier, W.E. 248
Bickle, L.W. 95
Biehl, F.A. 148
Bielak, J. 586
Bieniecki, H.S. 412
Binder, R.C. 109
Birkemoe, P.C. 573
Bishop, G.W. 60
Bishop, R.E.D. 422
Blenner, D.R. 106
Bleustein, J.L. 182
Bliven, D.O. 497
Block, D.L. 61
Blue, J.E. 521
Bobrovnitskii, Y.I. 334
Bogdanoff, J.L. 542
Bohs, C. 127
Boitano, J.D. 615
Bokor, A. 171,601
Bonthron, R.J. 431
Botsford, J.H. 613
Boyd, D.E. 175
Brach, R.M. 575
Brand, R.S. 27
Brendel, K. 480
Brocher, E. 525
Bromley, K. 46
Bryan, M.E. 482
Buchan, A.L. 321
Budd, R.W. 489
Bulatov, G.A. 593
Bulkeley, P.Z. 462
Bycroft, G.N. 36

C

Calcaterra, P.C. 407
Campbell, J.L. 196,519
Campos, P.E. 96
Cannon, C.M. 131
Carow, D. 202

AUTHOR INDEX TO THE SHOCK AND VIBRATION DIGEST

VOLUME 1 ISSUES 1 - 12 1969

Feature Articles

	Issue	Pages
Plunkett, R. Shock and Vibration Instrumentation	4	1-4
Traexler, J. F. Vibration Problems in Turbomachinery	5	1-3
Eshleman, R. L. Digital Simulation of Dynamic Systems	8	1-6

A

Abgarian, K.A. 547
Ablowitz, M. 152
Aboudi, J. 397
Acharaya, A.R. 541
Achenbach, J.D. 168,260
Abu-Akeel, A.K. 363
Advani, S.H. 462
Akulenko, L.D. 219,548
Ali, H.B. 41
Allwood, R.J. 328
Alma, H.F. 41
Al-Najafi, A.M.J. 503
Al-Temimi, C.A. 605
Alterman, Z.S. 397
Ames, W.F. 35
Anand, G.V. 277,576
Anderson, D.L. 543
Anderson, G.L. 193
Anderson, T.L. 379
Anderson, W.J. ... 199,310,558
Andrew, C. 484
Andrews, F.A. 444
Aoki, I. 345,560
Arcas, N. 160
Arkhangel'skii, M.E. 603
Armstrong, I.D. 278
Arthurs, T.D. 65
Ashton, J.E. 169,447
Atkinson, J.D. 28
Attia, A.Y. 213
Austin, F. 211
Awojobi, A.O. 236

B

Baganoff, D. 43
Baganoff, F. 43
Bagdasaryan, G.E. 602
Bahn, M.M. 107
Bajan, R.L. 59
Bajpai, S.D. 589
Baker, G.L. 619
Baker, J.L. 421
Baker, W.E. 399
Balke, R.W. 166
Ballard, W.C. 130
Bannister, R.L. ..515,516,607
Bapat, V.A.R. 295,464
Bargel, H.-J. 534
Barnoski, R.L. 16,292,394,463
Basore, C.E. 615
Basu, S.K. 536
Bauer, H.F. 234
Baxi, C.B. 512
Bell, A.W. 103
Benedict, R.P. 206
Benson, D. 202
Berkof, R.S. 170
Berkowitz, H.M. 34
Berktay, H.O. 605
Bernstein, B. 485
Bert, C.W. 119,125,194
421,608
Bertodo, R. 494
BeVier, W.E. 248
Bickle, L.W. 95
Biehl, F.A. 148
Bielak, J. 586
Bieniecki, H.S. 412
Binder, R.C. 109
Birkemoe, P.C. 573
Bishop, G.W. 60
Bishop, R.E.D. 422
Blenner, D.R. 106
Bleustein, J.L. 182
Bliven, D.O. 497
Block, D.L. 61
Blue, J.E. 521
Bobrovnitskii, Y.I. 334
Bogdanoff, J.L. 542
Bohs, C. 127
Boitano, J.D. 615
Bokor, A. 171,601
Bonthron, R.J. 431
Botsford, J.H. 613
Boyd, D.E. 175
Brach, R.M. 575
Brand, R.S. 27
Brendel, K. 480
Brocher, E. 525
Bromley, K. 46
Bryan, M.E. 482
Buchan, A.L. 321
Budd, R.W. 489
Bulatov, G.A. 593
Bulkeley, P.Z. 462
Bycroft, G.N. 36

C

Calcaterra, P.C. 407
Campbell, J.L. 196,519
Campos, P.E. 96
Cannon, C.M. 131
Carow, D. 202

Carpenter, A. 453
Carr, W.E. 373
Carter, J. W. 445
Carter, R.L. 577
Casey, S.L. 130
Caughey, T.K. 28,279,382
Cavicchi, R.H. 454
Chae, Y.S. 616
Chan, K.S. 438
Chandrasekaran, A.R. ... 183
Chang, P.-Y. 286
Chapman, C.P. 477
Chen, H.-H. 458
Chen, Y.N. 138,232
Chiang, P.C. 200
Chiu, Y.P. 280
Chou, P.C. 423
Christiansen, H.N. 85
Chronan, S. 502
Chu, T.Y. 240
Chu, W.-H. 298
Clausen, J.D. 130
Coale, C.W. 184
Cobble, M.H. 177
Cohen, E. 261
Cohen, R. 393
Collas, P. 564
Collins, J.D. 335
Conticelli, V.M. 97
Cooperrider, N.K. 381
Cornelius, K.T. 144
Cortese, A.D. 594
Cottis, M.G. 564
Crenwelge, O.E. 448
Cripe, A.R. 231
Crocker, M.J. ...320,465,481
Cronin, D.L. 44
Cunningham, D.M. 374
Cunningham, R.E. 199
Curreri, J.R. 70
Curwen, P.W. 142

D

D'Appolonia, D.J. 617
D'Appolonia, E. 617
Dareing, D.W. 150
Dasarathy, B.V. 262
Datta, S.K. 557,581
Davids, N. 318
Davis, S. 86
Dibaj, M. 618
Dickerson, J.R. 382
Dickinson, S.M. 172
DiPrima, R.C. 220
DiSilvio, G. 192
Doak, P.E. 434
Dokainish, M.A. 387,403
Donaldson, B.K. 553
Dong, S.B. 17
Dore, B.D. 52
Douglas, B.E. 87
Dowell, E.H. 221,435
Doyle, E. 398
Dudek, T.J. 106
Duffin, R.J. 300
Dunham, T.D. 139
Dupuis, H. 513
Durvasula, S. 18,222
Duval, G.E. 296
Dye, R.C.F. 415

E

Earls, D.L. 49
Edelman, S. 371
Edwards, T.C. 440
Efstathiades, G.J. 584
Egle, D.M. 125,139,421
Ekong, I.E. 431
Ellen, C.H. 19
Ellison, A.J. 287
Elrod, H.G. 240
Endo, M. 578
Engin, A.E. 449
Epstein, H. 391
Erickson, L.L. 83
Eriksson, L.J. 520
Eshel, A. 201
Eshleman, R.L. 431
Evan-Iwanowski, R.M. ... 523
Exley, K.A. 498

F

Fagan, J. 132
Fahy, F.J. 276,522
Faircloth, J.M. 198
Fandrich, R.T., Jr. 475
Farrell, W.E. 2,419
Feeser, L.J. 74
Feit, D. 174
Felsen, I.M. 309
Fen, C.C. 59
Ffowcs, J.E.W. 582
Fiore, N.F. 575
Fitzgerald, E.A. 116
Flannelly, W.G. 140
Fleming, D.P. 199
Fletcher, J.L. 5
Floyd, C.J. 62
Forsberg, K. 185
Forster, H. 410
Foster, D.J. 202
Foster, E.T. 293
Fotieo, G. 161
Fourney, W.L. 7
Frohrib, D.A. 88
Frost, A. 142
Funabashi, H. 181

G

Gaffney, J.S. 96
Gardner, N.J. 567
Gaugh, W.J. 65
Gee-Clough, D. 331
Geers, T.L. 566
Geib, F.E. 439
Geiger, J. 173
Georgian, J.C. 390
Ghosh, S.P. 536
Giesecke, J. 120
Gladwell, G.M.L. 263
Gnuni, V.T. 602
Go, J.C.-G. 112
Goel, S.C. 432
Goeller, J.E. 530
Goldberg, W. 301
Goldsmith, W. 374,568
Goodall, J.R. 517
Gormley, J.F. 336
Griffiths, W.M. 305
Grigor'ev, E.T. 609
Grossman, P.L. 549

H

Hagedorn, P. 550
Hagiwara, Y. 345,560
Haines, D.W. 63
Hall, R.I. 624

Hallam, M.G. 332
Hammond, J.K. 282,294
Hanagud, S. 353
Hapeman, M.J. 535
Hardin, J.C. 271
Harris, T.A. 308
Hart, G.C. 544
Haskell, D.F. 149
Hatsuno, K. 345,560,574
Hawkings, D.L. 582
Heckl, M. 360
Heer, E. 64
Heizman, C.L. 479
Hemenway, C.L. 488
Henry, A.S. 32
Henry, T.A. 415
Henshell, R.D. 223
Herrmann, G. 24,260
Hertelendy, P. 281
Hickling, R. 4
Higgs, R.W. 520
Hinsch, K. 480
Hirakawa, K. 370,554
Hirano, Y. 499
Hirsch, T.J. 440
Hitzl, D.L. 424
Hoerner, J. 459
Hohn, R.E. 255,257,258
Holbeck, H.J. 65
Honnell, P.M. 390
Hooker, R.J. 570
Hornung, K.G. 398
Houbolt, J.C. 29
Howard, E.P. 30
Howlett, J.T. 133
Hribar, A.E. 197
Hribar, J.A. 471
Hsu, C.S. 233,264
Hu, W.C.L. 20,336
Huang, F.C.C. 383
Huang, H. 188
Huang, T. 150
Huang, T.C. 383
Hudson, R.R. 481
Hung, N.-X. 579
Hupfer, P. 441
Hutchinson, J.R. 56
Hwang, C. 45

I

Iberall, A.S. 418
Icerman, L.J. 350
Idriss, I.M. 621,622
Inazaki, I. 153
Ip, C.-U. 30
Irvine, R.G. 486
Itoh, S. 388
Ivanov, A.B. 551
Iwan, W.D. 311,571
Iyengar, K.T.S.R. 420
Iyengar, R.N.R. 420

J

Jaeckel, H.R. 600
Jagadish, K.S. 329
Jagannath, D.V. 403
Jaszlics, I.J. 59
Jennings, P.C. 459
Jewell, R.E. 76
Jhaveri, D.P. 545,587
Johns, D.J. 328
Johnson, B.M. 484
Jones, A.B. 252
Jones, C.E. 563
Jones, D.I.G. 131,145,366,406
Jones, E. 371
Jones, J.P. 186
Jones, O.E. 569
Jones, P.J. 66
Jong, I.C. 195
Jorn, R. 346
Junger, M.C. 174
Jusofie, M.J. 304

K

Kadman, Y. 80
Kaekina, T.M. 361
Kagawa, Y. 312,317
Kahawa, Y. 396
Kahn, M.E. 265
Kaliski, S. 425
Kana, D.D. 20
Kane, T.R. 265,324
Kao, G.C. 97
Kaplan, S.M. 351,490
Kapur, K.K. 30
Karasudhi, P. 290
Kariappa 8
Kato, S. 505,537
Keating, W.H. 241
Keer, L.M. 290
Keller, A.C. 134
Kennedy, L.W. 569
Kenner, V.H. 568
Kerr, A.D. 384
Kessel, P.G. 21,26,224
Khokha, Y.V. 375
Kirkley, E.L. 210
Klatt, M. 461
Kleimenov, A.F. 225
Klosterman, A.L. 429
Koenig, H.A. 318
Kogan, I.N. 368
Kono, K. 327,507
Koplik, B. 549
Kosko, E. 316
Kovach, R.L. 543
Kozin, C.H. 92
Kozin, F. 92
Krach, F.G. 89
Kraft, D.C. 147
Kriebel, H. 1
Krokstad, A. 396
Kuhlemeyer, R.L. 433
Kuiken, H.K. 572
Kulasa, L.V. 98
Kulina, M.R. 155
Kumar, R. 337
Kumbasar, N. 162
Kundert, W.R. 369
Kunio, T. 345,560
Kuo, C.T. 264
Kuo, E.Y.T. 3,552
Kurita, H. 537
Kushul, M.I. 226
Kuttruff, H. 304

L

Laird, W.M. 98
Lang, G. 346
Lardner, T.J. 67
Laura, P.A. 530
Lazarus, M. 352
Lee, K.L. 622
Lee, P.C.Y. 216
Lee, S. 42
Lee, S.K. 90
Lee, S.L. 290,395
Lee, S.S. 264
Lee, S.Y. 35
Lee, Y.-C. 108
Lehfeldt, E. 359

Leibowitz, M.A. 591
Lemon, J.R. 429
Leonard, J.W. 580
Lepie, A.H. 487
Lester, H.C. 15
Lesunovskii, V.P. 375
Leventhall, H.G. 171,601
Levy, S. 405
Lewis, J.L. 374
Lewis, P. 259
Lianis, G. 284,301
Liber, T. 391
Librescu, L. 266
Licht, L. 539,540
Lifer, C.E. 45
Lifschitz, J.M. 442
Liiva, J. 367
Lin, Y.K. 553
Lindbergh, C. 175
Lindsey, J.R. 404
Linkins, P.W. 468
Lionberger, S.R. 115
Liu, S.-C. 190,545,587
Loeb, M. 5
Loeber, J.F. 55
Long, B.R. 23
Long, C.F. 357
Long, G.W. 255,257,258
Lovell, E.G. 22,385
Lowell, S.C. 296
Lowen, G.G. 170
Lowery, L.L. Jr. 440
Lowery, R.L. 330
Lowson, M.V. 455
Luco, J.E. 217
Lund, J.W. 242
Lutes, L.D. 64
Luz, E. 302
Lyapunov, V.T. 356,380
Lymer, A. 303
Lynn, P.P. 162
Lysmer, J. 433

M

Mafi, S. 456
Magrab, E.B. 6
Mah, G.B.J. 562
Mahalingam, S. 267
Mahmoodi, P. 460
Mains, R.M. 93,163
Malaiu, E. 266
Malanowski, K. 610
Malcic, V.R. 443
Mamoun, M. 414
Manvi, R. 296
Mard, K.C. 91
Maresca, C. 525
Marie, H.H. 37
Markeev, A.P. 227
Marlin, J.A. 9
Marsh, H. 203
Martin, D.J. 133
Martin, J.A. 280
Marui, E. 505,537
Maslov, V.P. 355
Mason, J.M. 171
Mason, V. 268
Masri, S.F. 307
Massoud, M.F. 348
Matake, T. 347
Matlock, H.M. 73
Mattavi, J.L. 599
Maurer, J.R. 394
Mayberry, B.L. 119,194
Mazalov, V.N. 501
McCabe, J.T. 240
McCallion, H. 261
McConnell, K.G. 376
McCool, J.I. 280
McCoy, J.J. 297
McCulloch, W.S. 418
McGregor, H.M. 496
McIvor, I.K. 385
McKenzie, D.P. 2,53
McKinlay, A.H. 208
McLennan, G.A. 526
McMunn, J.C. 386
Means, R.W. 4
Mei, C. 565
Meinheit, D.F. 573
Meltzer, G. 495
Mercer, C.A. 282
Messiter, A.F. 558
Michelsen, F.C. 286
Migliaccio, R.R. 620
Mikhalina, M.G. 593
Miklowitz, J. 365
Miller, C.E. 246
Miller, G.K.,II. 57
Miller, H.T. 121
Mitschke, M. 275,546
Mitsuhashi, S. 561
Mitsuya, Y. 507
Mixon, L.C. 399
Mohring, W.F. 358
Monahan, M.A. 46
Moody, M.L. 110,379
Moon, F.C. 187
Moore, C.J. 287
Moore, L.S. 325
Moorhouse, D.C. 619
Morcos, W.A. 348
Morfey, C.L. 500
Mori, B. 574
Morino, L. 228
Morozova, N.N. 339
Morrison, J.A. 483
Mortell, M.P. 10,58
Moseley, P.E. 446
Mote, C.D. 154,179
Motter, L.E. 430
Mowbray, D.F. 193
Muhlenfeld, E. 506
Muir, T.G. 521
Mullen, J.F. 155
Muller, E.A. 358
Muller, H. 40
Mungur, P. 522
Munse, W.H. 573
Murakami, T. 340
Murfin, W.B. 47
Murty, A.V.K. 254,590
Muster, D.F. 448,555
Muthiyalu, N. 451

N

Nagaev, R.F. 509
Nakamura, H. 345,560,574
Narasimha, R. 283
Nashif, A.D. 131,146,406
Naumkina, N.I. 593
Nelson, F.C. 122
Nelson, J.A. 535
Nemirovsky, Y.V. 501
Nevins, R.G. 291
Newman, R.K. 147
Ng, C.W. 250
Nicholas, T. 117
Nielsen, R. 71
Nishikaw, Y. 269
Nishioka, K. 370,554
Nisitani, H. 349,377
Nissel, N.B. 86
Noiseux, D.U. 68
Nokes, D.S. 122
Noldus, E. 338
Noonan, W.E. 31
Norwood, F.R. 214
Novak, M. 111
Now, Y.C. 243
Nowinski, J.L. 531

O

Obermeier, F.F. 358
Ochi, M.K. 430
Oehler, H. 534
Ogawa, K. 181
O'Hara, G.J. 7,135,136
Ohno, J.M. 118
Okazaki, T. 343
Olcer, N.Y. 176
Ollerhead, J.B. 455
On, F.J. 69
Ong, C.-C. 24
Ono, K. 156
Orcutt, F.K. 250
Orner, P.A. 528
Ostwald, P.F. 256
Ota, H. 327,507
Ovchinnikov, P.F. 612

P

Padovan, J.A. 70
Pahwa, J.L. 329
Pakstys, M. 99,100
Pan, C.H.T. 200,241
Pan, H.H. 450
Pao, Y.-H. 187
Parisse, R.F. 392
Parker, R. 305,322
Parker, R.J. 310
Parker, R.L. 2
Parkinson, A.G. 422
Parmelee, R.A. 395
Paslay, P.R. 555
Pastushikhin, V.N. 611
Patashnick, H. 488
Paul, H.S. 54,451
Paul, W.F. 51
Payne, J.G. 77
Pearman, G.T. 229
Peck, J.C. 365
Pendered, J.W. 422
Pengelley, C.D. 25
Penzes, L.E. 113
Penzien, J. 618
Percival, C.M. 56,214
Perelman, D.S. 395
Petak, L.P. 136
Peter, A. 400
Peterson, A.P.G. 369
Pettit, E. 85
Petyt, M. 319
Pierce, C.V. 532
Pilkey, W.D. 11,71
Platus, D.L. 141
Pluhar, L. 416
Plunkett, R. 386
Popelar, C.H. 364
Poppitz, J.V. 164
Porter, J.W. 446
Powell, J.W. 351
Poznyak, E.L. 244
Pretlove, A.J. 466
Price, A.J. 465
Pringle, R. 426
Pulgrano, L.J. 152
Purdy, K.R. 197
Putman, T.H. 143

Q

Quindry, T.L. 437

R

Rader, D. 237
Radzimovsky, E. 414
Raftopoulos, D. 238
Rakowski, J.E. 154
Ramachandran, A. 512
Ramirez, G.A. 284
Ramkrishnan, C.V. 557,581
Ramsden, J.N. 467
Rand, R.H. 556
Raney, J.P. 101
Rao, C.V.J. 254,590
Rasmussen, R.E. 594
Ray, J.D. 125,608
Reader, W.T. 6
Reasenberg, P. 401
Reddi, M.M. 510
Reese, J.R. 532
Regillo, D.A. 126
Reismann, H. 108,314,315
Remmers, G.M. 135,137
Rhea, L.G. 291
Richardson, H.H. 247
Rieger, N.F. 408
Roberson, R.E. 468
Roberts, H.C. 614
Roberts, J.B. 270,585
Roberts, W.H. 161
Robinson, A.R. 577
Robinson, R.P. 303
Robra, H. 534
Robson, J.D. 323,469
Rodden, W.P. 354
Rodriguez, D.A. 34
Rogers, C.B. 37
Rollins, H.M. 246
Romacker, B. 514
Root, L. 127
Root, L.W. 32
Rosenfield, M.J. 97
Rosin, G.S. 378
Rosman, R. 253
Ross, B. 353
Ross, E.W. 285
Ross, G.A. 620
Rossettos, J.N. 392
Rotem, A. 442
Rubanovskii, V.N. 230
Rubinstein, N. 72
Rucker, C.E. 33
Rudder, F.F. 84
Rumbarger, J.H. 252

S

Sackman, J.L. 568
Sahay, B. 387
Saini, S.S. 183
Saito, H. 340,502
Salane, H.J. 73
Salceanu, C. 306
Sargent, D. 491
Satō, K. 114,341
Satō, T. 114
Saunders, P.D. 129
Savolainen, G.Y. 380
Schaetzle, W.J. 198
Schaldach, V. 527
Scharton, T.D. 48
Schatzberg, P. 309
Schlack, A.L., Jr. 21,26,224
Schnabel, P. 596
Schnobrich, W.C. 577
Schowessow, T.D. 16
Schubert, D.W. 407
Schwartz, K.P. 249
Schwertassek, R. 592
Scruggs, R.M. 532
Seager, D.L. 409

Sears, W.R. 342
Seed, H.B. 620,621,622
Serbyn, M.R. 444
Sevy, R.W. 49
Shah, A.H. 557,581
Shamblin, J.E. 256
Shapiro, W. 204
Sharp, G.R. 177
Sharp, R.S. 517
Shea, J.M. 606
Shepherd, R. 313
Shimizu, H. 157
Shinozuka, M. 178,344
Shipley, J. 478
Shroyer, E.F. 412
Sidell, R.S. 247
Sidhu, G. 353
Siering, H. 514
Sigillito, V.G. 72
Sih, G.C. 55
Silver, R.L. 151
Sincavage, J. 132
Singh, H. 470
Singhvi, G.M. 74
Skeer, M.H. 471
Skopowski, P.S. 492
Skorecki, J. 303
Sleeper, R.K. 15
Smalley, A.J. 205
Smith, C.S. 75
Smith, F.A. 66,76
Smith, F.W. 207
Smith, M.C. 518
Soedel, W. 511
Soifer, M.T. 102,103
Sokolova, G.A. 611
Soler, A.I. 38
Soliman, J.I. 167,332
Somashekar, B.R. 8
Somerset, J.H. 151
Sonstegard, D.A. 124
Soong, T.T. 497
Sorensen, A. 595
Sorgatz, H. 410
Soulant, H. 42
Sowers, J.D. 94
Spencer, W.J. 216
Splittgerber, H. 472,583
Spriggs, J.H. 558
Sridhar, R. 255,257,258
Srinivasan, A.V. 212
Srinivasan, P. 262,295
464,541
Stadter, J.T. 72
Stahl, B. 354
Stammers, C.W. 263
Stanišić, M.M. 77,271
Sternlight, B. 259
Stevens, K.K. 523
Stevens, K.N. 461
Straight, J.W. 12
Strawderman, W.A. 27
Strickland, G.E. 78
Sun, C.T. 260
Swanson, S.R. 600
Swearingen, J.S. 456
Szeless, A.G. 533

T

Tabarrok, B. 272
Tai, C.L. 79,427
Tajer-Ardabili, D. 167
Tallian, T.E. 280
Tamura, A. 156
Tamura, H. 157
Tanaka, S. 574
Tang, T.M. 326
Tanida, Y. 343
Taniguchi, O. 578
Tartakovskii, B.D. 593
Tatge, R.B. 555
Tempest, M.C. 351
Tempest, W. 482
Terrill, R.M. 215
Thomas, E.V. 158
Thompson, R.A. 411,538
Thomson, W.T. 335
Thurman, A.L. 179
Timmerman, D.H. 623
Ting, T.C.T. 362
Troke, R.W. 604
Trubert, M.R. 50
Trumpler, P.R. 326
Tseng, S.F. 556
Tso, W.K. 299
Tsou, F.K. 423
Tung, C.C. 165
Tustin, W. 128,402

U

Uchiyama, S. 79,427
Udoguchi, T. 561
Uicker, J.J., Jr. 189,218
Ungar, E.E. 80

V

Vaidya, P.G. 434
Van Houten, J.J. 209
Vatz, I.P. 123
Verga, J. 81,476
Verma, P.D.S. 470
Vigil, M.G. 95,104
Vinson, J.R. 413,428
Von Hardenberg, P.W. ... 91

W

Wada, T. 561
Waller, R.A. 331,333
Walliser, K. 597,598
Walpole, W.R. 588
Walsh, E.K. 555
Walter, P.L. 493
Warburton, G.B. 223,503
Warkulwiz, V.P. 105
Warnaka, G.E. 436
Watari, A. 473
Weaver, W. 115
Webb, D.L. 624
Weber, J. J. 82
Webster, J.C. 453
Wee, R.B.S. 276
Wehrli, C. 508
Weichbrodt, B. 411
Weissenburger, J.T. 273
Welch, W.P. 129
Wenglarz, R.A. 324
Wernick, R.J. 555
Westbrook, D.R. 13
Whetstone, W.D. 563
White, D.J. 524
White, J.P. 161
White, R.W. 320
Whitehead, D.S. 288
Whitehouse, G.D. 330
Whitman, R.V. 617
Whittier, J.S. 186
Widera, O.E. 504
Wilcock, D.F. 248

Willems, P.Y. 269
Williams, C.E..... 461
Williams, F.J. 249
Witte, A.F. 39
Wittrick, W.H. 14
Wohltmann, M. 159
Wolf, D. 40
Wood, D.M..... 417
Woodhead, M.M. 453
Worsfold, J.H. 494
Wright, D. 393
Wright, D.V.....515,516,607
Wright, S.E. 457
Wright, T.W. 235
Wu, C.-I.....413,428
Wu, T.H. 623

Y

Yaguchi, S. 574
Yamamoto, T..... 327
Yang, J.-N.....178,344
Yang, T..... 196
Yang, T.M. 48
Yang, W.-J. 438
Yao, J.T.P. 389
Yeh, H.Y. 389
Yelon, W.B. 371
Yeowart, N.S..... 482
Yonetsu, S. 153
Yoshikawa, Y..... 377
Young, D.F. 239
Yu, Y.-Y. 549

Z

Zaiser, J.N. 35
Zak, M.A. 559
Zaretsky, E.V..... 310
Zeman, J.L. 542
Zetkov, G.A..... 211
Ziegra, G.A..... 100
Zimmerman, S. 274

A

Absorbers (Equipment)
- 211 212 - - 405 146 - 148 139
406
496

Absorbers (Materials)
480 - - 593 34 - - - - -

Accelerometers
- 401 - - - - - 247 - -

Acoustic Excitation
160 481 232 3 304 305 276 197 48 209
320 342 33 555 566 397 358
360 482 213 597 598
490 552

Acoustic Filters
- - - - - - - - 138 -

Acoustic Pressures
80 - - - - 5 76 287 - -

Acoustic Resonance
330 - 322 - 274 - 306 197 318 -
480 604 596 227
287

Acoustic Response
500 351 2 - 174 455 6 457 188 -
520 521 232 434 465 76 518

Acoustic Tests
100 - 482 - - 605 - - - 209

Active Isolation
- 1 - - - - - 167 - -
381 407

Aerodynamic Characteristics
490 51 342 - 354 - 266 367 328 -
221 316 407
567

Aerodynamic Damping
- - - - 354 - 266 367 - -

Aerodynamic Excitation
490 221 342 - - - 316 407 328 -
567

Air Bearings use Gas Bearings

Aircraft
- 51 492 - - - - 367 - -

Aircraft Equipment
- - - 363 - - - - - 49

Aircraft Noise
- 461 - - - - - - - -

Amplifiers
- - - - - - - - 528 -

Amplitude Data
- 221 212 - 474 125 - - - -
465

Analog Simulation
50 - 292 - - 275 - - - 379
495

Angular Velocity use Rotation, Velocity

Anisotropy
90 421 - - 504 - - 447 - 119

Approximations
- 341 72 - 234 - 286 - 18 -
504 468

Arbitrary Body Radiation
- - 552 - - - - - - -

Arches
- - - 233 264 - - - - -

Asymptotic Series
220 - - - - - - - - -

Automobiles
600 - 452 473 - 245 346 - - -
513 275 546
495

Automobile Tires
- - - - 594 - - - - -

Axial Force
- 341 - - 114 - - - - -

Axisymmetric Vibrations
- - - - - 185 - - - 609

Bending
- - - - - - - - - - 449

Bending Vibration use Flexural Vibration

B

Bands use Moving Strips

Balancing
170 181 - - 404 245 326 - - 259
325

Ball Bearings
310 - - - - - - 157 - 249
309

Bandpass Filters
- - - - - - - - - 369

Bars
300 - - - - - 56 297 - 39
350 569

Beam-Grids (Structural Members)
- - - - 334 - 286 - 278 -

Beams (Supports) see also Columns
320 41 12 223 84 - 106 37 98 39
340 171 122 413 114 286 67 318 89
350 261 272 334 316 117
271 292 364 396 177
341 502 564 406 187
471 437
511 497
531
601

Bearing Response
- - 142 - - - - - - -

Bearings use more specific term: Air Bearings, Ball Bearings, Fluid-Film Bearings, Foil Bearings, Gas Bearings, Hydrostatic Bearings, Journal Bearings, Roller Bearings, Self-Acting Bearings, Spool Bearings, Squeeze-Film Bearings
200 201 142 203 204 205 156 157 248 199
220 241 202 243 244 247 308 249
240 251 242 259
280 252 309
310
510
540

Bending Vibration use Flexural Vibration

Berger Theory
- - - - - - - - 428 -

Bernoulli Theory
- - - - - - - - 428 -

Bernoulli-Euler Method
- - - 223 - - - - - -

Blades
- 51 582 343 - - - 367 - -
403

Boats use Ships

Boiler Tubes
- - - - - - - - 388 -

Bolts
- - - 573 - - - - - -

Boundary Layer Damping
- - - 603 - - - - - -

Boundary Value Problems
- 451 - - - - - - - -

Brakes (Motion Arresters)
- - - 363 - - - - 148 -

Brasses
- - - - - - - 347 - -

Bridges (Structures)
620 271 - - - 165 - - - 329

Bubble Dynamics
- - - - - - - - 438 -

Buildings
- 481 432 313 164 395 586 - 588 459
472 433 544 545
583

Bungetzianu Method
- - - - - - 306 - - -

C

Cables (Ropes)
530 - - - - - - - - -

Calibrating
- 371 - - - - 526 207 - -

Cantilever Beams
- - - - - - - 37 318 299
437

Cantilever Bridges
- - - - - - - - - 329

Cavity Resonance
330 - - - - 375 - - - -
470

Chatter
- - - 153 484 255 - 257 148 -
505 537 258
538

Chimneys
- - - - - - - - 328 -

Chip Removal
- - - - - - 256 - - -

Circular Bars
- - - - - - - - - 569

Circular Membranes
- - - - - 565 - - - -

Circular Plates
- - - - - - - - - 499
589

Circular Shells
450 - - - - - 566 - - 499

Circumferential Waves
- - - - - 185 - - - -

Columns (Supports) see also Beams
110 - 432 523 - - - - - 379
150

Combined Stresses
570 - - - - - - - - 599

Compacting
- - - - 624 615 - 617 - 619

Complex Modulus
- 301 - - - - - - - -

Composite Materials
260 - 442 593 194 - 106 17 428 119
396 339

Composite Structures see also Sandwich Structures, Laminates
450 121 502 423 - 65 - - 608 119

Compression Waves
- - - - - - 365 - - - -

Compressive Strength
- - - - - 34 - - - - -

Compressor Blades
- - - - - 434 415 - - - -

Compressors
- - - - - 434 - - - - -

Computer Programs
- - 532 353 - 405 - - - -

Concretes
- - - - 253 - - 536 - 588 89

Confidence Limits
- - - - - - - 206 - - -

Conical Shells
20 - 392 - 274 - - - 448 -
374 568
608

Construction Industry use Industry

Containers
- 541 52 - - - - 427 298 449

Continuum Mechanics
260 471 302 - 284 - 376 - - -

Control Systems
610 491 - 143 - 155 - - - -
393

Conveyors use Materials Handling Equipment

Cooling Towers
- - - - - - - - 567 - -
577

Correlation
- - - - 43 4 545 - - - -

Cost Optimization
- - - 333 - - - - - -

Coulomb Damping use Coulomb Friction

Coulomb Friction
- - - 183 214 - - - - -
363 414

Coupled Response
- - - - 584 - 316 - - 299

Cracked Structures
- - - - - 55 - - - -

Crack Propagation
280 - - - - - - 377 - -

Crankshafts
- - - - 534 - - - - -

Critical Angle Problem
- - - - - 235 - - - -

Critical Damping
- - - - - - - 87 - -

Critical Speeds
- - - - - 155 - - - 259

Cross-Correlation Techniques
- - - 43 4 - - - - -

Crushing Strength use Compressive Strength

Curved Colums
- - - - - - - - - 379

Curved Plates
- 221 - 33 - - - - - -

Curve Fitting
- - - - - - 206 - - -

Cylindrical Shells
10 21 22 503 24 185 396 17 328 499
20 421 392 603 315 566 317 578
450 501 532 385 427
551 555

Cylindrical Tubes
590 - - - 254 - - - - -

Cushioning Materials see also Foams
440 - - - - 445 - - - -

D

Damping use more specific term: Aerodynamic damping, Coulomb Damping, Critical Damping, Distributed Damping, Hysteretic Damping, Material Damping, Modal Damping, Structural Damping, Tuned Dampers, Viscous Damping, Viscoelastic Damping
140 121 122 123 134 195 106 87 228 19
550 131 212 203 144 295 116 147 508 459
570 211 302 223 354 575 176 177
381 352 403 604 266 307
481 366 367
396 387
536 437
467

Dams
- - 622 - - - - - 618 -

Data Processing
330 - - - 304 125 306 37 608 439
489

Delta Functions
- 591 - - - - - - - -

Design Procedure
- - - 363 494 85 146 - 158 -
594

Design Specifications
210 91 - - - - 86 - - -
476

Design Techniques
- 371 - - - 155 - 87 88 89
348 429

Dies
- - - - 54 - - - - -

Diesel Engines use Engines

Difference Equations
- - - 73 - - - - - -

Differential Transformation Function
- - 262 - - - - - - -

Digital Computation Techniques
390 71 62 73 94 115 66 - 148 189
92 495 478 389
578

Digital Simulation
- - 92 - - - - - - 69 389

Dilational Waves
- - 112 - - - - - - -

Dimensional Analysis
- - - - 104 - - - - -

Disks (Structural Forms)
- - 462 - 154 215 415 - - - -

Dissipative Systems
- 571 - - - - - - - -

Distortional Wave
- - 112 - - - - - - -

Distributed Damping
- - - - - - 386 - - -

Domes (Structural Forms)
- - - - - 285 - - - -

Drill Stem
- - - - - - 246 - - -

Ductile Materials
- - - - - - 256 - - -

Duhamel Integral
- - 422 - - - - - - -

Dynamic Analysis
- 71 62 163 94 65 115 135 205 - 247 - 59 99 111

Dynamic Capacity
- - 252 - - - - - - -

Dynamic Pressure Excitation
- 161 - - - - - - - -

Dynamic Properties
- - 242 - 244 - - - - -

Dynamic Response
80 11 82 13 214 105 96 177 188 89 120 201 132 183 314 115 116 297 218 189 190 471 392 493 175 186 379 350 481 422 185 486 429 491 295

Dynamic Stability
- - - - - 15 266 - - -

Dynamic Stiffness
- - 272 - - 205 - - 278 -

Dynamic Stiffness Matrix use more specific term: Dynamic Stiffness, Matrix Method

Dynamic Structural Analysis use Dynamic Analysis

Dynamic Structural Response use Dynamic Response

E

Earth Models
- - - 543 - - - - - -

Earthquake-Resistant Design use Seismic Design

Earthquakes see also Seismic Excitation
620 621 432 622 - 344 544 545 526 - 618 -

Echo Pulses
- - - - 4 - - - - -

Eigenvalue Problems
40 41 162 23 24 25 136 7 18 79
60 81 192 63 84 75 156 17 168 169
150 171 222 93 94 85 216 77 268 189
260 511 412 113 114 285 286 117 278 229
410 502 173 124 335 396 137 328 279
540 532 193 154 415 426 187 388 329
223 184 555 586 217 408 459
273 194 565 596 267 448
503 224 317 578
563 254 357
384 447
424 497
474 567
577

Elastic Foundations
340 - 332 502 - 264 395 176 236 - - -

Elastic Half-Plane use more specific term: Elastic Phenomena, Half-Plane

Elastic-Plastic Properties
- - 362 - - - - - 588 159

Elastic Properties
300 131 122 193 54 55 6 117 88 589
360 301 302 283 145 56 147 118
460 391 235 146 397 158
451 485 366 487
396 497

Elastic Waves
- 481 112 - - - 466 - 618 -
342

Elasto-Plastic use Elastic-Plastic

Elastomers see also Polymers, Polyurethane
480 - - - - - 346 487 - -

Electrical Machines
- 191 - - - - - 287 - -

Electrodynamic Shakers
- - 372 - - - - - - -

Electrohydraulic Shakers
- - 372 - - - - - 128 -

Electromagnetic Properties
- - 352 223 - - - - - -

Electromagnetic Shakers
50 - - - - - - - 128 -

Elliptic Functions
120 - - - - - - - 58 -
230

Energy Dissipation use Absorbers

Energy Methods
- - - - - - - 447 - -

Engines
- - - 453 494 - - - - -

Equations of Motion
- 281 462 - - - - 277 458 -
321 327
611

Equipment
- - - 363 - - - 617 - 49
619

Error Analysis
- 131 - - - - 526 - - 69

Euler-Lagrange Equation
- 611 - - - - - - - -

Exact Methods
- - - - - - - 526 - - -

Excitation use more specific term: Acoustic Excitation, Brake Excitation, Dynamic Pressure Excitation, Gyroscopic Excitation, High Frequency Excitation, Parametric Excitation, Periodic Excitation, Random Excitation, Self-Excitation, Shock Excitation, Wind Induced Excitation

Experimental Models use Model Tests

Experimental Results see also Test Data
250 - 202 213 24 - 206 187 198 199
420 322 223 214 216 398 539
540 412 374 536 448
532 538

Extensional Waves
- - - - - - - 237 - -

Explosions
- - 472 493 - 545 - - - -

F

Fans
- - 582 - - - - - - -

Fasteners
- - - 573 - - - - - -

Fatigue
160 561 252 43 524 345 - 347 308 249
280 442 553 534 595 377 309
310 573 554 349
370 574 599
560

Fatigue Life
280 - 252 553 534 595 - 347 308 249
310 554 377 309
370 349
560

Feedback Systems
- - - - - 225 - - 338 -

Finite Difference Theory
- - 392 73 - - - 397 - -

Finite Element Techniques
30 261 - 93 - 565 - 567 8 99
510 223 268 319
433 318
503
563

Flexural Vibrations
150 361 72 73 234 355 156 67 278 179
450 531 162 254 385 316 117 409
172 364 277
502 357

Flight Vehicle Equipment
- - - 363 - - - - - 49

Flight Vehicles
- 51 492 - - - - 367 - -

Floating-Ring Journal Bearings
250 - - - - - - - - -

Floquet Theory
- - - - - 265 556 - - 269

Flugge Equations
- - - - - 315 - - - -

Fluid Amplifers
- - - - - - - - 528 -

Fluid-Containing Containers use Liquid-Containing Containers

Fluid-Film Bearings
- - - - 244 - - - - 259

Fluid-Film Damping
- - 242 - - - - - - -

Fluid-Induced Excitation
- - 232 533 - 375 - 27 - -
555

Fluids
120 - 52 - 124 215 196 197 298 79
192 184 375 306 337 358 109
602 485 378 309
609

Flutter
- 221 - 343 354 195 266 - 8 19
228 109
558

Foams see also Cushioning Materials
- 391 - 593 - - - - - -

Foil Bearings
540 201 - - - - - - - 539

Forced Vibration
580 - 502 483 - - 576 487 - 469
589

Force Generators
- - - - - - - - - 509

Foundations
- - - 433 - - 616 - - -

Fourier Analysis
- 271 - - - - - - - -

Fourier Transformation
- - 422 - 344 - - - - -

Fracture Properties
280 561 - - - 345 - - - 319
560 349

Framed Structures
- - 272 563 - - - - 588 -

Fredholm Equation
290 - - - - - - - - -

Free Vibration
580 - - 503 - 565 576 577 - -
543

French Damage Curve
- - - - - - - 377 - -

Frequency Response
70 31 412 - 64 - 106 107 88 449
240 101 118
271 248
338

Friedlander Method
- - - - - 365 - - - -

Functional Analysis
290 - 422 383 344 - 6 177 58 -
26 237

Fundamental Frequencies use Natural Frequencies

G

Galerkin Method
- 221 - 113 114 - 266 77 - 579
341

Gas Bearings
- 241 142 203 204 205 - 247 - 199
251 202
242

Gases
- - - - - - - - 288 -

Gas Turbine Blades use Turbine Blades

Gears
- 411 - 213 414 - - - 408 409

Grids use Beam Grids

Grinding (Comminution)
- - 612 - - - - - - -

Grooved Bearings
- - 202 - - 205 - - - -

Ground Motion
- - - 583 - - - - - -

Ground Vehicles
600 - 452 473 - 245 346 - - -
513 275 546
495

Group Velocity
340 - - - - - - - - -

Guidance Systems
- 491 - - - - - - - -

Gyroscopes
- - - 283 324 - 226 - - -
506

Gyroscopic Excitation
- 21 - - - - 26 - - -

H

Half-Plane
290 - - - - - - - - -

Half-Space
- - - - 54 235 - - - -

Hamilton-Jacobi Theory
- - - - - 265 - - - -

Harmonic Analysis
- - - - - - - 237 - -

Harmonic Excitation
350 451 - - - - - - - 469

Heat Exchangers
- - 232 - - - - - - -

Heat Transfer
- 291 512 - - - - - 198 289

Heavy Ideal Fluid
230 - - - - - - - - -

Helical Gears
- - - 213 - - - - - 409

Helical Springs
- - 312 - - - - - - -

Helicopter Noise
- - - - - 455 - 457 - -

Helicopters
- 51 492 - - - - 367 - -

Helmholz Resonators
- - - - 604 - 446 - - -

High Frequency Excitation
220 - - - - - - - - -

High-Rise Building
- - - - 544 - - - - -

High Speed Transportation
- - - - - 535 - - - -

Hill Equation
- - - - - - - - - 269

Holographic Techniques
400 - - - - - 46 - - -

Holzer Method
- - - - - - - 577 - -

Hopkinson Bar
- - - - - - - - - 569

Hugoniot Equation
- - - 423 - - - - - -

Human Factors Engineering
- 461 - 513 614 5 436 407 438 519
613 445 536

Hydrostatic Bearings
- - - - - - - - 248 -

Hyperboloid Shells
- - - - - - - 567 - -
577

Hysteretic Damping
- - - 223 - 195 366 387 - -

I

Industry
- - - 333 - - - - - -

Inertial Forces
170 181 - - 224 - - - - -

Inextensional Frequencies
- - - - - 285 - - - -

Influence Coefficient Matrix
60 - 92 - - - - - - -

Input Functions
- - - - 564 - - - - -

Instrumentation
- - - 373 - 605 16 527 - -
606 607

Instrumentation Correction use Calibrating

Integral Transformations
- - 422 383 344 - 6 177 58 -

Interaction: Plate-Airflow
- - - - - 435 - - - -

Interaction: Plate-Turbulence
- - - - - - 435 - - - -

Interaction: Structure-Medium
- - - - - - 395 - - - -

Interferometers
- - - - - 444 - - - - -

Isolation
- 1 212 - - - - 127 - -
381 167
407

Isolators
380 331 332 333 584 145 166 - - -
460 391 355 346
356

Iteration
- - 532 - - - - - - -

J

Joints (Junctions)
- 311 - - - 355 - - - -

Joint Stiffness
- - - - - - 115 - - - -

Journal Bearings
240 - - - 204 - 156 - - -
244

Junctions use Joints

K

Kamenkov Theory
- - - - - - - 547 - -

Kantarovich Method
- - - - - 384 - - - - -

Kinematics
- - 362 - 284 - - - - -

L

Langrange Equation use Euler-Langrange Equation

Laminates see also Composite Materials, Sandwich Structures
260 - - 593 - - 396 17 - 339

Landing Gears
- - - 363 - - - - - -

Laplace Transform
- - 422 383 - - - 177 58 -

Lathes
- - - - - - 256 417 - -

Lattices (Mathematics)
- - - - - - 296 - - -

Layered Structures use Laminates

Least Squares Method
- - - - - - 206 427 - -

Liapunov Method use Lyapunov Method

Life Tests use Fatigue Life

Linear Systems
- - - 273 - 425 386 - 28 389
586

Linear Theories
- - 422 - - 595 - 447 - 449
562

Linkages
170 - - - - - - - 218 189

Liquid-Containing Containers
- 541 52 - - - - 427 - 449

Liquids use Fluids

Longitudinal Response
- 61 312 283 414 - 246 - 238 79
568 299
569

Longitudinal Vibration
530 - - - - - - 277 - 179

Longitudinal Waves
- 61 - - 374 355 56 - 568 -
296

Loss Factor
- 121 122 123 94 - - - 88 -

Love Shell Theory
- 421 - - - - - - - -

Lubrication
510 - - - - - - - - -

Lumped Mass Method
- - - 223 - 415 - - - -

Lumped Parameter Method
- 41 - - - - - 497 - -

Lyapunov Method
- - 382 - - 225 426 - 548 219

M

Machinery
- 321 322 - 514 245 456 467 158 -
332 515 516
582 606

Machine Tools
- 441 - 443 484 505 256 257 538 -
416 417
536 537

Magnetic Fields
- - - - - - - 187 - -

Mass-Beam Systems
- 511 - - - - - - - -

Mass-Spring Systems
- 481 - - 464 265 556 - - -

Material Damping
570 131 302 - - - 366 147 - -
396 177
536

Materials Handling Equipment
- - - - - - - 348 -

Mathematical Models
50 101 82 93 34 155 96 97 - 59
190 111 92 103 94 275 307 69
280 102 293 144 495 467 79
420 282 393 164 525 517 319
292 284 545 587 379
472 544 585 389
552 595

Mathieu Functions
- - - - - - 26 - - -

Matrix Methods
20 431 272 553 14 - 336 467 8 339
282 218 509
562 468

Measuring Instruments
- 401 - - 374 - - 247 368 -
444 378

Mechanical Elements
390 71 - - 414 - - 417 398 409
411 554 408

Mechanical Impedance
130 81 - - - 205 136 87 68 69
137 498

Mechanical Properties
160 131 122 43 34 55 6 117 88 159
280 301 252 193 54 145 56 147 118 249
300 391 302 413 524 235 146 347 158 309
310 561 362 523 534 345 366 377 308 319
360 442 553 554 485 396 397 588 349
370 573 574 595 487 589
460 497 599
560

Mechanical Shakers
- - - - - - - 207 128 -

Mechanical Systems
410 - 152 - 394 105 - 547 - -
550

Mechanical Tests
100 101 132 83 104 65 126 127 98 119
130 492 123 105 376 207 128 129
210 133 125 208
400 415

Mechanical Waves
- 481 112 - - - 466 - 618 -
342

Membranes
360 - 462 - 224 565 26 357 18 449
580 384 558

Metal Working
- - - - 484 505 - - - -

Method of Characteristics
- - - - - - - - 288 -
298

Method of Successive Approximations
- - - - - - - - - 579

Milling (Machining)
- - - - - 255 - - 258 -

Minor Law
- - - - - 345 - - - -

Modal Analysis
- - 62 83 354 65 76 - 498 59
123 145 99
489

Modal Damping
- - - 123 - - - - - -

Modal Mass
- - - 123 - 135 - - - -

Model Tests
100 391 - - 104 45 516 97 48 69
484 95 616 607 98
515

Mode Shapes
400 - 502 23 124 25 336 427 18 79
532 93 555 586 447 229
503 577 459
563

Monte Carlo Method
- - - - - 335 - - - -

Morse Theory
- - 552 - - - - - - -

Motor Vehicles
- 381 - - - - - - - -

Moving Strips
- - - - - - - - 38 179
398

Multidegree-of-Freedom Systems
- - 262 - 294 395 526 - - 269

Multistory Buildings
- - - - - - - - 588 -

N

Natural Frequencies
40 41 162 23 24 25 136 7 18 79
60 81 192 63 84 75 156 17 168 169
260 171 222 93 94 85 216 67 268 189
410 511 412 113 114 285 286 77 278 229
540 502 173 124 415 396 117 328 329
532 193 154 555 586 137 388 459
223 184 565 596 187 408
503 194 217 448
563 224 267 578
254 317
384 357
424 447
474 497
567
577

Navier-Stokes Equations
- - - - - - - - - 239

Newtonian Fluid
- - - - - - - - - 239

Noise Prediction
- - - - - 455 - 457 - -

Noise Reduction
- 351 - 333 514 455 436 457 - -

Noise (Sound)
- 351 342 33 494 435 436 457 - 519
461 542 333 514 455 466
481 582 453 614
473
613

Noise Tolerance
- 461 - - - - - - - -

Noise Transmission
- - - - - 435 - - - -

Nondestructive Tests
- - - 43 - - - - - 529

Nonlinear Damping
550 - - - - - - - - -

Nonlinear Systems
- 571 22 - 394 35 - - 548 -
464 275
584

Nonlinear Theories
70 611 82 - - 225 - - 428 119
262 385 468
462 435

Normal Modes
40 11 - 193 134 75 - 7 - 469
60 41 223 174 185
300 334 565

Numerical Analysis
60 1 72 73 234 105 286 267 18 69
131 282 353 504 265 336 297 468 569
311 392 533 335 526 337 518
341 432 365 397
532 435

Nuclear Explosions
- - - - - 545 - - - -

O

Oil Film
- - - - - 155 - - - -

Openings
500 - - - - - - - - -

Optical Properties
- - 352 223 - - - - - -

Optimization
350 - - - - - 326 - - -
610 386

Optimum Design
350 - - - - - 166 - 88 -

Orthotropic Beams
- 531 - - - - - - - -

Orthotropic Plates
- - 172 113 - 75 266 - - -

Orthotropic Shells
- - - - - - - 17 - -

Oscillations
- 551 52 543 - - - - - -
572

Oscillators
- - - 483 - 585 36 - - -

P

Packaging
- - - - - - - - 208 -

Panels
- 611 392 83 - - 266 - 8 19
553 228

Parametric Excitation
550 - 382 - 364 - - - 28 -

Parametric Resonance
- - 602 263 - 265 - - - -
523

Parametric Response
110 151 - - - - - - - 379

Passive Isolation
- 381 212 - - - - - - -

Pendulums
- - - - - - - - - 9

Periodic Excitation
20 291 12 233 14 215 66 - 198 9
70 301 92 74 405 116 438 289
530 332 166 299
540 592 196

Periodicity Pitch
- - - - - - - 597 598 -

Periodic Vibrations
- - 402 483 - - - - - 139

Perturbation Theory
300 - 222 - 234 - - - 228 269
552 298
572 358
558

Phase Data
- 131 - - 444 125 - - - -

Phase Velocity
340 - - - - - - - - -

Piezoelectric Materials
- - 182 - - - 596 - - -

Piezoelectric Shakers
- 371 - - - - - - - -

Pile Driving
440 - - - - - - - - -

Pipe Resonators
- - - - 604 - - - - -

Piping see also Tubes
410 - - - - - - - - -

Plastic Deformation
- 141 - - - - - - 238 359

Plastics
- - - - - 515 516 607 - -

Plate-Airflow Interaction use Interaction: Plate-Airflow

Plates (Structural Members)
320 151 162 13 74 75 6 27 18 119
360 221 182 23 194 305 16 77 108 169
380 361 222 33 234 355 26 187 228 229
451 292 63 314 415 176 237 268 319
412 113 384 435 216 447 318 339
462 193 504 266 428 499
343 564 276 558 579
353 356 589
413
533

Plate-Turbulence Interaction use Interaction: Plate-Turbulence

Pneumatic Signal
- - - - - - - 247 - -

Pneumatic Springs
- 331 - - - 275 - 167 - -

Poisson Ratio
300 - - - - - - - - -

Polymers see also Elastomers
480 - - - - - - - - -

Polyurethane see also Elastomers
480 - - - - - - - - - -

Probability Theory
430 - - - - 585 - - 178 -

Pulse Excitation use more specific term: Shock Excitation

Q

Quarter Space
- - - - - 235 - - - -

Quartz
- - - 63 - - 216 - - 229

R

Railroad Trains
- - - - - 535 436 - - -

Random Excitation
80 151 92 293 294 405 66 567 28 29
320 271 152 323 394 116 328
430 282 463 524 316 478
292

Random Parameters
- 591 - - - - - - - -

Random Response
30 31 32 293 - 335 - 107 68 -
270 152 178
600 542

Rayleigh Ritz Method
- - 72 - - - 286 - 18 -

Rayleigh Waves
- - 112 - - - - - - -

Rectangular Bars
- 281 - - - - - - - 299

Rectangular Membranes
- - - - 384 - 26 - - -

Rectangular Plates
- - 292 - 234 435 16 27 268 319
412 384 26 447 428

Regression Analysis
- - - - - - - 206 - - -

Reinforced Beams
- - - - - - - - - - 89

Reinforced Concrete
- - - - - - - 536 - 588 -

Reinforced Plates
- - - - 74 - - - - -

Reinforced Shells
- - - - - - - - - 448 -

Resonance use more specific term: Acoustic Resonance, Cavity Resonance, Parametric Resonance, Vibration Resonance

Resonance-Bar Technique
- - - - - - 575 - - - -

Resonance Tests see also Vibration Tests
- 101 - 83 - 125 136 - 488 -
525 316

Resonant Frequency use Natural Frequencies

Resonators
- 131 - - 604 - 446 - 138 -
476
596

Response use more specific term: Acoustic Response, Bearing Response, Coupled Response, Frequency Response, Longitudinal Response, Parametric Response, Random Vibration Response, Structural Response, Transient Response, Vibration Response

Response Spectra
- - - 313 44 - - - - -

Ritz Method
70 - - - 194 - - - - 169

Rods use Bars

Rolamite
- - - - 214 - - - - -

Roller Bearings
280 - 252 - - - - - 308 249

Rotary Inertia
10 431 - 83 84 - 336 117 58 -
531 383 504 557 318
413 428

Rotary Wings
- 51 582 - - 455 - 367 - -
457

Rotation
- - 462 - 424 - 426 - 508 -
506

Rotational Flow
- - - - - - - - 358 -

Rotor Blades (Rotary Wings) use Rotary Wings

Rotor Blades (Turbomachinery)
- - - - 434 415 - - - 519

Rotor Response
- - - - - - 456 - - 259

Rotors
540 251 - 263 404 155 166 157 468 539
431 383 434 325 226 327 508
454 455 326 367
426 457
456 507
506

Rubber use Elastomers

Rubber Springs
- - - - - 495 - - - -

S

Sandwich Beams
450 - 502 - - - - - - -

Sandwich Plates
450 - - - - - - - - -

Sandwich Shells
450 - - - - - - - 608 -

Sandwich Structures see also: Composite Structures, Laminates
450 - 502 83 - - - 317 228 -
608

Satellites see also Spacecraft
- - - - - 15 - 227 - 489

Scaling use Model Tests

Seals (Stoppers)
- - - - - - - - - 259

Seismic Design
- - - 313 - - - - - -

Seismic Excitation
420 401 - 183 - - - 587 - 389
493

Seismic Response
- - - - - 395 586 - 588 389

Seismic Waves
- - - - - - - - 618 -

Self-Acting Bearings
- - - 203 - - - - 248 -

Self-Excited Vibrations
- 51 192 363 - - 156 257 228 269
111 537 408
191
241
251
321

Series (Mathematics)
220 - - - 74 - - - 78 469
270 108

Shafts (Machine Elements)
- - 72 253 534 155 156 327 508 -

Shakers use more specific term: Electrohydraulic Shakers, Hydraulic Shakers, Mechanical Shakers

Shallow Arches
- - - - 264 - - - - -

Shear Deformations use Transverse Shear Deformations

Shear Waves
- - 112 63 - - - 217 - 229
362

Shells (Structural Forms)
10 21 22 113 4 45 116 17 58 149
20 421 392 353 24 175 186 317 328 449
120 501 532 503 124 185 336 337 448 499
360 551 562 603 174 385 396 357 568 549
450 581 602 274 555 566 427 578 609
470 374 557 608
580 567
577

Shells of Revolution
580 - - - - - - 577 - -

Ships
430 41 42 373 - - - - 388 519
458

Shock Absorbers see also Vibration Absorbers
- 1 - - 144 275 - - - -
141
331
381
391

Shock Excitation
80 141 82 183 164 95 86 97 78 99
100 401 112 233 234 135 116 297 108 149
190 601 142 353 175 296 158
230 472 373 235 238
540 423 295 568
583 315 618
365
385
475

Shock Isolators use Shock Absorbers

Shock Testing
100 - 132 - 104 105 126 127 208 129
210

Shock Tubes
- - - - - 95 - - - -

Shock Wave Diffraction
- - - - - 365 - - - -

Shrouded Propellants
- 351 - - - - - - - -

Simulation
50 - 92 393 544 495 - 517 - 69
190 292 545 587 379
420 552 585 389

Single Degree-of-Freedom Systems
- - - 363 294 - - - - 469
394

Sinusoidal Excitation use Periodic Excitation

Size Effects
- - - - - - - - - 349
439

Skew Membranes
- - 222 - - - - - 18 -

Skew Plates
- - 222 - - - - - 18 -

Skin-Stringer Method
- - - 553 - - - - - -

Slip Amplitude
- - - - 554 - - - - -

Sloshing
- - - - - - - 427 298 449

Snap-Through Problems
- - - 233 264 - - - - -

Soils
- 621 - 433 164 615 - 217 - -
623 624 617

Sonic Boom
- 481 342 - - - 466 - - -

Sound Pressures use Acoustic Pressures

Sound Transmission
- - 522 - - 465 - - - -

Sound Waves
- 481 342 - - - 466 - - -

Spacecraft see also Satellites
490 - - - 424 15 426 - 48 -
25
45

Space Stations
- - - - - 15 - - - -

Spectrum Analysis
- 491 - - 294 545 486 587 478 -
581

Spheres
- - 512 53 - - - - - - 243

Spherical Cavity
- - - - - - - - 288 -

Spherical Shells
470 581 - - 4 - 336 357 58 449 174 557 188 549

Spinning use Rotation

Spool Bearings
- - - - - 205 - - - -

Springs
- 331 312 - - 275 - 167 - - 495

Squeeze-Film Bearings
200 - - 243 - - - - - - 220

Stability
200 211 382 203 204 15 226 227 258 199 240 241 233 224 195 266 387 508 219 250 263 364 255 416 447 548 379 550 483 424 425 426 507 558 539 584 505 556 547 559 576

Stabilization
- - - 143 - - - - - -

Stacks (Exhaust) use Chimneys

Stalling
- - - - - - - 367 - -

Standing Waves
- - - - 154 - - - - -

Statistical Analysis
430 - - - - 335 206 - - -

Statistical Energy Methods
- - - - - 465 - - - 49

Steady State use Periodic Excitation

Stenosis
- - - - - - - - - 239

Stiffened Cylinders
- 501 532 - - - - - 328 -

Stiffened Plates
- - - 23 - - 276 - - -

Stiffness Methods
- - 272 - 14 - - - - -

Stochastic Processes
- - - - 344 - - - 528 -

Stodola Method
- - - 563 - - - - - -

Strain Gages
- - - - 374 - - - - -

Strain Hardening
- - 362 - - - - - - -

Strain Transient
- - - - - - - 297 - -

Strings (Structural Members)
40 - - 283 - 35 576 277 38 279 530 498 559 610

Structural Damping
- 121 122 403 134 - 106 87 228 19 481 116 437 459

Structural Forms
10 21 22 113 4 45 116 17 58 149 20 421 272 233 24 175 186 317 328 449 120 501 392 353 124 185 336 337 448 499 360 551 462 503 154 215 396 357 568 549 450 581 532 563 174 285 566 427 578 609 470 562 603 264 385 557 588 580 602 274 415 567 608 374 555 577

Structural Members
40 41 12 13 74 35 6 27 18 39 110 71 122 23 84 75 16 37 38 79 150 121 162 33 114 305 26 67 78 89 320 151 182 63 194 335 106 77 98 119 340 171 222 113 234 355 176 117 108 169 350 221 272 193 314 415 216 177 228 229 360 261 292 223 334 435 266 187 268 279 380 271 412 283 364 465 276 237 278 319 530 341 432 343 384 286 277 318 339 610 361 462 353 504 316 437 428 379 451 502 413 564 356 447 498 499 471 523 396 497 558 559 511 533 406 579 531 576 589 601 599

Structural Resonance
- - - - 424 - - - - -

Structural Response
160 - - 463 164 - - 147 - 29
330 344 437 149
564 429
459

Structure-Medium Interaction use Interaction: Structure-Medium

Structures
130 11 82 43 14 75 76 7 178 59
160 61 162 163 184 85 86 87 99
350 71 192 173 115 136 97 109
620 81 542 135 186 127 329
91 145 137 429
101
111
271

Surface Vibrations
290 - - - - - - - - -

Suspension Systems (Vehicles)
- 231 452 - - 495 66 517 - -
381 535

T

Tanks (Containers)
- 541 - - - - - 427 298 -

Tapered Beams use Beams, Variable Cross Section

Tapes use Moving Strips

Taylor Series Method
- - 562 - - - - - - -

Temperature
- - - - - - - - 118 -

Test Data see also Experimental Results
560 561 - 513 524 495 446 - - 409
621 573 604 439

Test Equipment
50 - 42 303 64 95 126 127 128 129
370 372 373 104 325 496 207 208 209
304 475 388
574 478
594

Testing Techniques
100 131 132 133 134 45 46 47 48 189
140 401 442 403 444 135 126 127 208 209
180 411 482 443 245 136 137 378 349
210 441 493 305 376 147 458 489
400 593 345 416 307 478 529
440 475 347 488
460 545 528
490 575 598
600 605 608

Test Instrumentation
- - - 303 - - 486 487 488 419
506 607

Test Specifications
180 - - - - - - - - - -

Tests use more specific term : Acoustical Tests, Resonance Tests, Shock Tests, Vibration Tests

Thermal Stresses
- - - - 24 - - - - -

Thermoelasticity
- - - 193 - - - - - -

Thin Beams
- - - - 364 - - - - -

Thin Plates
- - - - 234 - - - 558 -

Thin Shells
580 421 - - - 185 336 - 448 449
285 499

Timoshenko Beam Theory use Timoshenko Theory

Timoshenko Theory
- 531 - - - - - - 318 -

Tires
- - - - 594 - - - - -

Tools
- 441 - 153 484 505 256 257 538 -
393 416 417
443 536 537

Torsional Response
590 191 312 253 364 55 236 417 408 299
474 246 487 409
316

Tracked Vehicles
- 381 - - - - - - - -

Tracking Filter
- - - - - - 496 - - - -

Tractors
- - - - - 445 - - - - -

Trains use Railroad Trains

Transducers
- 401 402 493 - - 46 247 378 399
439

Transfer Matrix Method
- - - 553 - - - - - - -

Transient Response
- 481 132 493 - 105 486 297 188 379
422 175
295

Transmissibility use Transmissivity

Transmissivity
- - 352 223 - - - - - - -

Transportation
- - - - - 535 - - - - -

Transversely Isotropic Phenomena
- - - 413 - - - - - - -

Transverse Normal Strain
- - - - - - - - 557 - -

Transverse Shear Deformations
10 431 - 83 84 - 336 117 58 -
531 383 557 318
413 428

Transverse Vibrations use Flexural Vibrations

Traveling Loads use Moving Loads

Tubes see also Piping
590 - - - - - 196 - 388 239

Tuned Dampers
- - - 363 - - 406 - - - -

Tuned Frequencies
- - 212 - - - - - - - -

Turbine Blades
- - - 403 - - - - - - -

Turbine Components
- - - - 403 - - - - - -

Turbomachinery
400 - - 403 404 - - - - 259

Turbulence
- - - 603 - - - - - - -

U

Ultrasonic Vibration
- - - - - - - - - - 359

Unbalanced Mass Response
- - 242 - - - - - - - -

V

Variable Cross Section
- - - - - - - - 37 - 39

Variable Material Properties
530 - - - - - - - 497 - -

Variational Methods
- - - 413 - - - - 428 549
543

V-Belts
- - - - - - - - - 398 -

Velocity
- - - - - - - 506 - 508 -

Vibration Absorbers (Equipment) see also Shock Absorbers
140 - - - - - - 146 - 148 139
496

Vibration Absorbers (Materials) see also Shock Absorbers
- - - - 593 - - - - - -

Vibration Analyzers
- - - - - - - - 597 - 369

Vibration Excitation
- 361 142 - - - - - - - -

Vibration Frequencies use Natural Frequencies

Vibration Isolators
380 331 332 333 - 145 346 - - -
460 391 355 356

Vibration Mode use Normal Mode

Vibration Monitors
- - - - - - 606 - - -

Vibration Resonance
410 - - 483 - - - 227 388 -

Vibration Response
30 21 22 33 54 35 16 27 38 49
180 31 32 153 204 155 46 107 68 159
200 161 52 293 224 165 176 157 148 199
270 241 152 623 484 185 256 217 178 339
600 172 195 386 257 188
202 245 396 387 258
512 255 537 378
542 505 538

Vibration Tests
130 101 492 83 - 65 376 207 98 119
400 123 105 128
133 125
415

Vibrators (Machinery)
- 371 42 483 - 585 476 - 368 -
372
492

Vibratory Compacting
- - - - 624 615 - 617 - 619

Vibratory Mills
- - 612 - - - - - - -

Vibroflotation
- - - - 624 615 - - - -

Viscoelastic Core-Containing
450 - - - - - - - - -

Viscoelastic Damping
- - - - - - 406 - - -

Viscoelasticity
460 131 122 523 - 145 146 117 88 -
301 302 485 366 147 118
391 396 397 158
487

Viscometers
- - - - - - - - 368 -
378

Viscosity
140 211 212 203 144 295 176 307 508 -
467

Viscous Damping use Damping, Viscosity

Vortex Noise
- - - - - 455 - - - -

Vortex Shedding
- - 232 - - - - - - -

W

Water Towers
- 541 - - - - - - - -

Wave Propagation
90 61 112 153 - 235 56 237 - -
340 521 182 465 186 397
581 522 557

Waves use more specific term: Dilational Waves, Distortional Waves, Elastic Waves, Extensional Waves, Longitudinal Waves, Mechanical Waves, Oscillation Waves, Rayleigh Waves, Shear Waves, Sound Waves, Standing Waves

Wedges
- - 572 - - - - - - -

Whirling
- - - - - - - - - 199
279

Wind-Induced Excitation use Aerodynamic Excitation

Windows
- - - - - - 466 - - -

Work Hardening use Strain Hardening

GPO 885-134